



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name AHMEDABAD TEXTILE INDUSTRY'S RESEARCH ASSOCIATION(ATIRA), PO AMBAWADI VISTAR, AHMEDABAD, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5097 Page No. : 1 / 22

Validity 18/01/2019 to 17/01/2021 Last Amended on 15/02/2019

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
Permanent Facility					
1	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air Quality Monitoring	Oxides of Nitrogen (NOx)	IS: 5182 (Part- 6) 2006 : 2006	6 µg/m ³ to 750 µg/m ³
2	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air Quality Monitoring	Particulate Matter (PM10)	IS : 5182 (Part – 23) (RA 2017): 2006	5 µg/m ³ to 1000 µg/m ³
3	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air Quality Monitoring	Particulate Matter (PM2.5)	USEPA Quality Assurance Hand Base, Vol. II (Part-II) Quality Assurance Guidance Document 2.12 : 2016	5 µg/m ³ to 1000 µg/m ³
4	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air Quality Monitoring	Sulphur Dioxide (SO ₂)	IS: 5182 (Part- 2) 2001 (Reaffirmed-2006): 2006	4 µg/m ³ to 1050 µg/m ³
5	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air Quality Monitoring	Suspended Particulate Matter (SPM)	IS: 5182 (Part- 4) (Reaffirmed-2014): 1999	5 µg/m ³ to 1000 µg/m ³
6	CHEMICAL-ATMOSPHERIC POLLUTION	Stationary Source(Stack Emissions Monitoring)	Oxides of Nitrogen (NO ₂)	IS: 11255 (Part – 7) (RA 2017): 2005	2 mg / Nm ³ to 400 mg/ Nm ³
7	CHEMICAL-ATMOSPHERIC POLLUTION	Stationary Source(Stack Emissions Monitoring)	Particulate Matter (PM)	IS: 11255 (Part – 1) 2009 : 2009	10 mg/Nm ³ to 1000 mg/Nm ³
8	CHEMICAL-ATMOSPHERIC POLLUTION	Stationary Source(Stack Emissions Monitoring)	Sulphur Dioxide (SO ₂)	IS: 11255 (Part- 2) 1985 (Reaffirmed-2009): 2009	3 mg/Nm ³ to 500 mg/Nm ³
9	CHEMICAL- PLASTIC & RESINS	Plastics and Polymers	Limiting Oxygen Index	ASTM D 2863-13 ISO 4589-2 1996 ISO 4589-3: 1996	18 % to 60 %



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10	CHEMICAL- PLASTIC & RESINS	Plastics and Polymers	Smoke Density	ASTM E662-13d ISO 5659-2(E): 2006	0.01 VOFDs to 1500 VOFDs
11	CHEMICAL- PLASTIC & RESINS	Plastics and Polymers	Toxicity Index	NES 713 April 2006 NCD 1409(Specification no. RDSO/2006/CG-12) Dec: 2006	0.1 % to 60 %
12	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Ammonical Nitrogen	APHA 23rd Edition – 2017:4500/NH3 C: 2017	0.05 mg/l to 500 mg/l
13	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Chloride (as Cl)	APHA 23rd Edition – 2017:4500/Cl- B: 2017	10 mg/l to 10000 mg/l
14	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Colour	APHA 23rd Edition – 2017:2120/C: 2017	1 Hazen to 500 Hazen
15	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Dissolved Oxygen (DO)	APHA 23rd Edition – 2017:4500 O C: 2017	0.1 mg/l to 6.0 mg/l
16	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Fluoride (as F)	APHA 23rd Edition – 2017:4500/F- D: 2017	0.5 mg/l to 50 mg/l
17	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	pH	APHA 23rd Edition – 2017:4500/H+: 2017	1 to 14
18	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Sulphate (as SO ₄)	APHA 23rd Edition – 2017:4500/SO ₄ - E: 2017	10 mg/l to 5000 mg/l
19	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Sulphide (H ₂ S)	APHA 23rd Edition – 2017:4500/S ₂ - F: 2017	0.5 mg/l to 200 mg/l



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20	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Total Dissolved Solids (TDS)	APHA 23rd Edition – 2017:2540/C: 2017	100 mg/l to 25000 mg/l
21	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Total Suspended Solids (TSS)	APHA 23rd Edition – 2017: 2540/D: 2017	10 mg/l to 250 mg/l
22	CHEMICAL- SOLID FUELS	Coal	Gross Calorific Value	IS 1350 part 2: 2017	1000 KCal/Kg to 8500 KCal/Kg
23	CHEMICAL- SOLID FUELS	Coal	Proximate Analysis- Ash	IS 1350 part 1-1984 RA: 2013	1.0 % to 50.0 %
24	CHEMICAL- SOLID FUELS	Coal	Proximate analysis- Moisture on Air dry Basis	IS 1350 part 1-1984 RA: 2013	5.0 % to 30.0 %
25	CHEMICAL- SOLID FUELS	Coal	Proximate Analysis- Volatile	IS 1350 part 1-1984 RA: 2013	2.0 % to 60.0 %
26	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Fibre, Yarn, Fabric	Blend Analysis	IS: 3416-1988 Part 1 RA 2008, ISO 1833-11-2006 AATCC-20A-2013 IS:2006-1988 RA 2009 ISO 1833-4-2006 IS:3421-1988 RA 2010 ISO:1833-12-2006 IS:1889-1979-Part IV RA: 2010	1 % to 100 %
27	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Fibre, Yarn, Fabric	Colour Fastness to Artificial Light: Xenon Arc fading lamp test	ISO 105 B02 2014 IS 2454 1985 RA: 2010	Qualitative(Grade 1.0 to 8.0)
28	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Fibre, Yarn, Fabric	Colour Fastness to Crocking-AATCC Crockmeter	AATCC 8: 2016	Qualitative(Grade 1.0 to 5.0)



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29	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Fibre, Yarn, Fabric	Colour Fastness to domestic and commercial laundering- Oxidative bleach response using non-phosphate reference detergent incorporating a low bleach activator	ISO 105 C09: 2001	Qualitative(Grade 1.0 to 5.0)
30	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Fibre, Yarn, Fabric	Colour Fastness to Domestic and Commercial Laundry	ISO 105 C 06-2010 IS 13025-1991 RA : 2008	Qualitative(Grade 1.0 to 5.0)
31	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Fibre, Yarn, Fabric	Colour Fastness to domestic and commercial laundering using non-phosphate reference detergent incorporating a low temperature bleach activator	ISO 105 c 08: 2010	Qualitative(Grade 1.0 to 5.0)
32	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Fibre, Yarn, Fabric	Colour Fastness to Dry Cleaning	ISO 105 D01 2010 AATCC 132 2013 IS 4802-1988 RA: 1999	Qualitative(Grade 1.0 to 5.0)
33	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Fibre, Yarn, Fabric	Colour Fastness to Hot pressing	ISO 105 X11 1994 AATCC 133 2913 IS 689 1988 RA: 2009	Qualitative(Grade 1.0 to 5.0)
34	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Fibre, Yarn, Fabric	Colour Fastness to Laundry Accelerated	AATCC 61 No.1A-5A: 2013	Qualitative(Grade 1.0 to 5.0)
35	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Fibre, Yarn, Fabric	Colour Fastness to Perspiration	ISO 105-E04-2013 IS 971-1983(RA 2009) AATCC 15: 2013	Qualitative(Grade 1.0 to 5.0)



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36	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Fibre, Yarn, Fabric	Colour Fastness to Rubbing	ISO 105-X12 2016 IS 766-1988 RA: 2009	Qualitative(Grade 1.0 to 5.0)
37	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Fibre, Yarn, Fabric	Colour Fastness to Washing with Soap and Soda	ISO 105 C10-2006 IS/ISO 105 C10: 2006	Qualitative(Grade 1.0 to 5.0)
38	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Fibre, Yarn, Fabric	Colour Fastness to water	ISO 105 E01 2013 AATCC 132 2013 IS 767 1988 RA: 1999	Qualitative(Grade 1.0 to 5.0)
39	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Fibre, Yarn, Fabric	Colour Performance of High-Visibility warning clothing	DIN EN ISO 20471:2013 EN 471: 2003 + A1: 2007 EN 1150:1999 IS 15809: 2008	Qualitative(Chromaticity Coordinates 0.1 up to 0.9)
40	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Fibre, Yarn, Fabric	Colour Performance of High-Visibility warning clothing	DIN EN ISO 20471:2013 EN 471: 2003+A1: 2007 EN 1150: 1999 IS 15809: 2008	Qualitative(Chromaticity Coordinates 0.1 up to 0.9)
41	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Fibre, Yarn, Fabric	Ether Soluble Matter	IS: 4390-2001 RA: 2012	0 % to 20 %
42	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Fibre, Yarn, Fabric	Fatty Matter	IS: 199-1989 RA 2005 RA: 2010	0.01 % to 20 %
43	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Fibre, Yarn, Fabric	Fibre Identification	IS: 667-1981 RA: 2008	Qualitative
44	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Fibre, Yarn, Fabric	Identification of Dyes	IS 4472-Part-I: 1967	Qualitative



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45	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Fibre, Yarn, Fabric	Instrumental Colour difference measurement (CMC: Calculation of Small Colour Differences for Acceptability) "Relative Colour Strength of Dyes in Solution"	AATCC Test Method 173-2015 AATCC Test Method 182-2011 SAE J 1767-: 2014	0.1 deltaE to 10 deltaE
46	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Fibre, Yarn, Fabric	pH of Aqueous Extracts	IS: 1390-1983 RA 2004 ISO 3071-2005 AATCC 81: 2012	1 to 14
47	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Fibre, Yarn, Fabric	Releasable Formaldehyde	IS 14563-1999 (Part 2) ISO 14184-2-2011 AATCC 112: 2008	20 mg/kg to 3500 mg/kg
48	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Fibre, Yarn, Fabric	Total Size or Finish	IS 199-1989 RA: 2010	0.1 % to 30 %
49	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Fibre, Yarn, Fabric	Water Soluble Matter	IS: 3456-1966 RA: 2010	0 % to 20 %
50	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Fibre, Yarn, Fabrics	Scouring Loss	IS: 1383-1977 RA: 2009	0.1 % to 10 %
51	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Textile Fabric	Ash content	IS 1346: 2016	1.0 % to 20.0 %
52	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polymer Matrix Composites	Apparent interlaminarshear strength by short-beam method	ASTM D2344-06 ISO 14130:1997: 1997	5 MPa to 500 MPa



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53	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polymer/plastics	Deflection Temperature of Plastics Under Flexural Load in the Edgewise Position	ISO 75- 2:2013/ ASTM D648-07 METHOD B: 2007	30 °C to 275 °C
54	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polymer/plastics	Rockwell Hardness	ISO 2039-2:1987/ ASTM D785-08: 2008	10 HRL to 120 HRL
55	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polymer/plastics	Vicat Softening Temperature of Plastics	ASTM D1525-09/ ISO 306:2013: 2013	30 °C to 275 °C
56	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Subgroup1Unreinforced and Reinforced Plastics	Reaction to fire tests -- Ignitability of products subjected to direct impingement of flame -- Part 2: Single-flame source test	ISO 11925-2:2010: 2010	Qualitative(3 to 60sec)
57	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Subgroup1Unreinforced and Reinforced Plastics	Standard for Safety of Flammability of Plastic Materials for Parts in Devices and Appliances testing1. Horizontal Burning2. Vertical Burning3. 45° angle Burning	UL 94:2013 (Class 7, Class 12) :1998 ASTM D635-14 ASTM D4986-10 ISO 9772 : 3rd Edition 2012 IS 11731(Part 1): 1986 (reaffirmed 2001) UL 94:2013 (Class 8, Class 9, Class 11) IS 11731 (Part 2) 1986 (reaffirmed 2001): 2001	Qualitative(1s to 900s)
58	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Unreinforced and Reinforced Plastics	Charpy impact properties:Non-instrumented impact test	ISO 179-1:2010: 2010	10 kJ/m ² to 1000 kJ/m ²



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59	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Unreinforced and Reinforced Plastics	Compressive Properties of Rigid Plastics	ASTM D695-15 ISO 604:2002: 2002	1 MPa to 20000 MPa
60	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Unreinforced and Reinforced Plastics	Density and Specific Gravity (Relative Density)by Displacement(Method A)	ASTM D792-13: 2013	0.8 g/cc to 2.5 g/cc
61	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Unreinforced and Reinforced Plastics	Flexural Properties	ASTM D790-15e2 ISO 14125:1998 Method- A, Amendment 1:2011 ISO 178:2010/ Amendment:2013: 2013	5 MPa to 2000 MPa
62	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Unreinforced and Reinforced Plastics	Heat Release Rate(Cone Calorimeter Method)	ISO 5660-1:2015: 2015	1 kW/m ² to 500 kW/m ²
63	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Unreinforced and Reinforced Plastics	Indentation Hardness of Rigid Plastics by Means of Barcollmpressor	ASTM D2583-13a: 2013	5 HBa to 100 HBa
64	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Unreinforced and Reinforced Plastics	Izod Pendulum Impact Resistance	ASTM D256-10 ISO 180:2000- Amendment- 2 :2013: 2013	5 kJ/m ² to 700 kJ/m ²
65	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Unreinforced and Reinforced Plastics	Tensile Properties of Plastics	ASTM D638-14 ISO 527-4:1997 ASTM D3039-14: 2014	1 MPa to 4000 MPa
66	MECHANICAL- TEXTILE MATERIALS	Cotton Fibers	AFIS- Neps/g	ATSM D 5866: 2012	1 neps/g to 999 neps/g
67	MECHANICAL- TEXTILE MATERIALS	Cotton Fibers	AFIS-neps Size (mu)	ATSM D 5866: 2012	450 μm to 1500 μm



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68	MECHANICAL-TEXTILE MATERIALS	Cotton Fibers	HVI-Colour whiteness (Rd)	STP/TT/Fi/1 Issue No. 9, Uster Standard Test Method 1997: 2016	40 to 85
69	MECHANICAL-TEXTILE MATERIALS	Cotton Fibers	HVI-Colour Yellowness (+b)	STP/TT/Fi/1 Issue No. 9, Uster Standard Test Method 1997: 2016	4 to 18
70	MECHANICAL-TEXTILE MATERIALS	Cotton Fibers	HVI-Elongation%	ASTM D 5867-12 e1, ISO 4913 1981, IS 233 part 4 1978-RA 2004: 2012 : 2012	2 % to 20 %
71	MECHANICAL-TEXTILE MATERIALS	Cotton Fibers	HVI-Length	ASTM D 5867-12 e1, ISO 4913 1981, IS 233 part 4 1978-RA 2004: 2012	3.0 mm to 44.0 mm
72	MECHANICAL-TEXTILE MATERIALS	Cotton Fibers	HVI-Length Uniformity	ASTM D 5867-12 e1, ISO 4913 1981, IS 233-Part 4, 1978 RA 2004: 2012	48 % to 95 %
73	MECHANICAL-TEXTILE MATERIALS	Cotton Fibre	HVI-Short Fibre %	STP/TT/Fi/1 Issue no.00,2018 (Uster Standard Test method-1997): 2018	0 % to 50 %
74	MECHANICAL-TEXTILE MATERIALS	Cotton Fibre	HVI-Strength	ASTM D 5867-12e1 ISO 4913: 1981 IS 233Part 4: 1978 RA: 2004	1 g/tex to 50 g/tex
75	MECHANICAL-TEXTILE MATERIALS	Cotton Fibre	HVI-Strength	ASTM D 5867-12e1 ISO 4913: 1981 IS 233Part 4: 1978 RA: 2014	1 g/tex to 50 g/tex



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76	MECHANICAL-TEXTILE MATERIALS	Cotton Fibre	Immature Fibre Content	STP/TT/Fi/2 Issue no.900 (Uster Standard Test Method-1997): 2018	1 % to 10 %
77	MECHANICAL-TEXTILE MATERIALS	Cotton Fibre	Maturity Ratio	STP/TT/Fi/2, Issue No. 00,2018, Uster standard test method 1997:: 2018	0.5 to 1.1
78	MECHANICAL-TEXTILE MATERIALS	Cotton Fibres	AFIS-Length	STP/TT/Fi/2, Issue No. 9, Uster standard test method 1997: 2016	3 mm to 45 mm
79	MECHANICAL-TEXTILE MATERIALS	Cotton Fibres	AFIS-SCN size (mu)	ASTM D 5866: 2012	450 µm to 1500 µm
80	MECHANICAL-TEXTILE MATERIALS	Cotton fibres	AFIS-Short fibre content(%)	STP/TT/Fi/2, Issue No. 9, Uster standard test method 1997: 2016	1 % to 50 %
81	MECHANICAL-TEXTILE MATERIALS	Cotton Fibres	Fibre Fineness(mtex)	STP/TT/Fi/2, Issue No. 00,2018, Uster standard test method 1997:: 2006	40 mtex to 315 mtex
82	MECHANICAL-TEXTILE MATERIALS	Cotton fibres	HVI-Micronaire	ASTM D 5867-12 e1: 2012	1.5 µg/inch to 8.0 µg/inch
83	MECHANICAL-TEXTILE MATERIALS	Cotton Fibres	Total Trash (%)	ASTM D 2812 - 2017, IS 4871-1968(RA 2014): 2017	0.01 % to 50 %
84	MECHANICAL-TEXTILE MATERIALS	Fabric, Garment	Crimp of warp and weft yarn removed from fabric	IS 3442-1980 (RA2014) ISO 7211-3 1984 ASTM D 3883-04(2016): 2008	0 % to 60 %



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85	MECHANICAL-TEXTILE MATERIALS	Fabric/Garment	Abrasion Resistance(Martindale)	ISO 12947(1) 1998 ISO 12947(2) 1998 ISO 12947(3) 1998 ISO 12947(4) 1998 ASTM D 4966-2016 IS 12673(RA 2010) EN 288 : 2017	Qualitative(100 to 100000 rubs 1 to 5 Grade; 1 to 2000 rubs)
86	MECHANICAL-TEXTILE MATERIALS	Fabric/Garment	Bursting Strength	ISO 13938-1 1999; ASTM D 3786-M: 2018	80 PSI to 1500 PSI
87	MECHANICAL-TEXTILE MATERIALS	Fabric/Garment	Drape Coefficient	ISO 9073-9 2008, Method A IS 8357-1977*RA 2008) EDANA 90.4 99: 2008	Qualitative
88	MECHANICAL-TEXTILE MATERIALS	Fabric/garment	Horizontal Flammability	ISO 3795:1989, ASTM D5132: 2017, IS 15061:2002 (RA2012), SAE J 369: 2013	0.1 s to 3600 s
89	MECHANICAL-TEXTILE MATERIALS	Fabrics, Garments	Water Vapour Resistance	ISO 11092-2014, ASTM F 1868-2017, NFPA 1971: 2001	0.01 m ² .Pa/W to 100 m ² .Pa/W
90	MECHANICAL-TEXTILE MATERIALS	Fabrics, Garments	Wing rip Tear	ISO 13937-3, 2000: 2000	100 N to 30000 N
91	MECHANICAL-TEXTILE MATERIALS	Fabrics/Garments	45 Degree Flammability	ASTM D 1230-10(RA 2017) 16 CFR 1610 IS 11871 1986 procedure A RA 2004: 2017	0.1 s to 3600 s



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92	MECHANICAL-TEXTILE MATERIALS	Fabrics/Garments	Abrasion Resistance (Martindale)	ISO 12947(1) 1998 ISO 12947(2) 1998 ISO 12947(3) 1998 ISO 12947(4) 1998 ASTM D 4966-2016 IS 12673(RA 2010) EN 388 :: 2016	0.0001 g to 10 g
93	MECHANICAL-TEXTILE MATERIALS	Fabrics/Garments	Absorbancy	AATCC 79-2014 IS 2349-1963 RA: 2016	1 s to 60 s
94	MECHANICAL-TEXTILE MATERIALS	Fabrics/Garments	Air Permeability	ISO 9237-1995 ASTM D 0737-04(2018) IS 11056-2013 EDANA 140.2-99 ISO 9073-15: 2007	1 l/m ² /s to 10000 l/m ² /s
95	MECHANICAL-TEXTILE MATERIALS	Fabrics/Garments	Count of Warp/Weft	IS 3442-1980 RA 2008, ISO 7211-5-1984: 2008	1 Ne to 200 Ne
96	MECHANICAL-TEXTILE MATERIALS	Fabrics/Garments	Crease Recovery by measuring angle of recovery	ISO 2313-1972 IS 4681 1981(RA 2004) AATCC 66: 2017	70 deg angle to 180 deg angle
97	MECHANICAL-TEXTILE MATERIALS	Fabrics/Garments	Dimensional Stability after exposure to heat	IS 11815-1986 Annexure B & Annexure C RA: 1997	-50 % to 50 %
98	MECHANICAL-TEXTILE MATERIALS	Fabrics/Garments	Dimensional Stability after immersion in water	ISO 7771-1985 AATCC 99-2004 IS 2977-1989 RA 2016: 2016	-50 % to 50 %
99	MECHANICAL-TEXTILE MATERIALS	Fabrics/Garments	Dimensional Stability to Dry Cleaning	ISO 3759 2017/ ISO 3175-2 2010, AATCC 158-2016 IS 15612 Part 2 Annexure C: 2006	-50 % to 50 %



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100	MECHANICAL-TEXTILE MATERIALS	Fabrics/Garments	Dimensional Stability to domestic Laundry	ISO 5077 2007/ ISO 6330 2012 AATCC 135-2018 AATCC 150-2018 IS 1299-1984 RA: 2016	-50 % to 50 %
101	MECHANICAL-TEXTILE MATERIALS	Fabrics/Garments	Measurement of Skew, Bow and Spirality	ASTM D 3882-08: 2016	-50 % to 50 %
102	MECHANICAL-TEXTILE MATERIALS	Fabrics/Garments	Oil Repellency	AATCC 118-2013 ISO 14419 RA: 2010	Qualitative(Grade 1 to 8)
103	MECHANICAL-TEXTILE MATERIALS	Fabrics/Garments	Pilling Resistance(Martindale)	ISO 12945-2 2000 IS 10971 part 2 2011 ASTM D 4970/4970M16e3: 2016	Qualitative(Grade 1 to 5)
104	MECHANICAL-TEXTILE MATERIALS	Fabrics/Garments	Pilling Resistance(Pill Box)	ISO 12945-1 2000 IS 10971 part 2011: 2011	Qualitative(Grade 1 to 5)
105	MECHANICAL-TEXTILE MATERIALS	Fabrics/Garments	Seam Performance (Seam strength and Seam Slippage)	ASTM D 434-95 ASTM D 1683/D 1683M-17e1 ISO 13935-1 2014 ISO 13935-2 2014 ISO 13936-1 2004 ISO 13936-2 2004: 2014	10 kgf to 3000 kgf
106	MECHANICAL-TEXTILE MATERIALS	Fabrics/Garments	Seam Performance(Seam Strength and Seam Slippage)	ASTM D 434-95 ASTM D 1683/ D 1683M-17e1 ISO 13935-1 2014 ISO 13935-2 2014 ISO 13936-1 2004 ISO 13936 2. 2004: 2014	1.0 mm to 10 mm
107	MECHANICAL-TEXTILE MATERIALS	Fabrics/Garments	Spirality/ Skewing of Fabrics & Garments	AATCC 179-2017 ISO 16322-2 2005 ISO 16322-3: 2005	-50 % to 50 %



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108	MECHANICAL-TEXTILE MATERIALS	Fabrics/Garments	Tarpezoidal Tear	ASTM D 5587 2015 IS 6489 part 3 2011 Ra 2017: 2017	100 N to 30000 N
109	MECHANICAL-TEXTILE MATERIALS	Fabrics/Garments	Tear Strength (Elmendorf)	ISO 13937-1:2000 ASTM D 1424 09 2013 IS 6489 part 1 2011 Ra 2017 IS 7016-2017 part 3 sec 2: 2017	320 g to 5200 g
110	MECHANICAL-TEXTILE MATERIALS	Fabrics/Garments	Tensile - Elongation (Strip Test)	ISO 13934-1: 2013 IS 1619-2010 ASTM D 5035-11(RA 2015) IS 7016-1981(Part II) RA: 2008	1.0 % to 100 %
111	MECHANICAL-TEXTILE MATERIALS	Fabrics/Garments	Tensile Strength & Elongation (Strip Test)	ISO 13934-1:2013 IS 1969-2010 ASTM D 5035-11(RA 2015) IS 7016-1981(Part II) RA : 2008	10 kgf to 3000 kgf
112	MECHANICAL-TEXTILE MATERIALS	Fabrics/Garments	Thermal Resistance	ISO 11092-2014, ASTM F 1868-2017, NFPA 1971: 2018	0.0001 sqm.k/W to 10.0 sqm.k/W
113	MECHANICAL-TEXTILE MATERIALS	Fabrics/Garments	Tongue Tear(Double)	ISO 13937-4: 2000 IS 7016-2017 (Part 3/ sec 1 method A: 2017	100 N to 30000 N
114	MECHANICAL-TEXTILE MATERIALS	Fabrics/Garments	Tongue(Trouser Shape) Tear(Single)	ISO 13937-2:2000 ASTM D 2261-13 EN 388:2016 IS 7016-17 (Part III) RA Method A2: 2008	100 N to 30000 N



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115	MECHANICAL-TEXTILE MATERIALS	Fabrics/Garments	Verical Flammability: Flame spread of Vertically Oriented specimen	ISO 6941-2003 BS 5438-1989 (1A and 2A) IS 15612-2005(Part 4)RA 2013 IS 15612 2006 (Part2 RA 2013) IS 11871-1986Procedure A(RA 2013) ASTM D 6413/D6413M-2015 EN 407 (sec 6.3): 2004	0.1 s to 3600 s
116	MECHANICAL-TEXTILE MATERIALS	Fabrics/Garments	Vertical Flammability: Ease of Ignition of vertically oriented specimen	ISO 6940-2004 ISO 15589-2005 RA 2013 IS 15612-Part 3 RA 2013: 2013	0.1 s to 3600 s
117	MECHANICAL-TEXTILE MATERIALS	Fabrics/Garments	Vertical Flammability: Flame Spread properties of Vertically oriented specimen	ISO 6941-2003 BS 5438-1989 (1A and 2A) IS 15612-2005(Part 4) IS 15612 2006 Part2) IS 11871-1986 Procedure A(RA 2013) ASTM D 6413/D6413M-2015 EN 407 (sec 6.3): 2004	0 mm to 300 mm
118	MECHANICAL-TEXTILE MATERIALS	Fabrics/Garments	Water Repellency(Spray Test)	ISO 4920-2012 AATCC 22 2017 IS 390 1975 RA 2003: 2017	Qualitative(ISO 1 to 5 AATCC (0,50,70,80,90,100))
119	MECHANICAL-TEXTILE MATERIALS	Fabrics/Garments	Water Resistance Hydrostatic Head Test	ISO 811-2018 EN 20811-1992 AATCC 127-2017 EDANA 120.2-02 ISO 9073-16 2007 BS 2823 1982 IS 391-1973 RA: 2003	10 mbar to 2000 mbar



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120	MECHANICAL-TEXTILE MATERIALS	Fabrics/Garments	Weight per unit area	ASTM D 3776/D 3776m-09a/ Option C IS 1964-2001(RA 2017) ISO 3801 1977: 2017	20 g/sqm to 6000 g/sqm
121	MECHANICAL-TEXTILE MATERIALS	Fibres	AFIS Seed Coat Neps	ASTM D 5866: 2012	1 Neps/g to 999 Neps/g
122	MECHANICAL-TEXTILE MATERIALS	Fibres	AFIS Seed Coat Neps	ASTM D 5866: 2012	1 neps/gm to 999 neps/gm
123	MECHANICAL-TEXTILE MATERIALS	Fibres	Fibre Denier (Gravimetric method)	ASTM D 1577-2017, IS 234-2013 , ISO 1973-1995: 2017	0.07 D to 10 D
124	MECHANICAL-TEXTILE MATERIALS	Fibres	Fibre Denier (Gravimetric method)	ASTM D 1577-2017 IS 234-1973 (RA 2013) ISO 1973: 1995	0.07 D to 10 D
125	MECHANICAL-TEXTILE MATERIALS	Fibres	Number of Crimps per mm	ASTM D 3937-12 (option 2): 2012	1 arcs/25mm to 25 arcs/25mm
126	MECHANICAL-TEXTILE MATERIALS	Fibres	Single Fibre Breaking Elongation (%)	ASTM D 3822- 07(2014), IS 235-1989 RA 2014, ISO 5079-1995: 2004	2 % to 60 %
127	MECHANICAL-TEXTILE MATERIALS	Fibres	Single Fibre Breaking Strength	ASTM D 3822-07 (2014), IS 235-1989 RA 2014, ISO 5079- 1995: 2014	0.5 CN to 1000 CN
128	MECHANICAL-TEXTILE MATERIALS	Fibres	Single Fibre Breaking Strength	ASTM D 3822-07 (2014) , IS 235 - 1989 (RA 2014) , ISO 5079 - 1995: 2014	0.5 CN to 1000 CN



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129	MECHANICAL-TEXTILE MATERIALS	Fibres	Single Fibre Length measurement	BISFA standard 2007, ISO 6989-1981, IS 10014-Part 1-1984 RA 2008: 2007	5 mm to 200 mm
130	MECHANICAL-TEXTILE MATERIALS	Fibres, Yarns, Fabrics	Moisture Content Moisture Regain	ISO 6741-1 :1989 ASTM D 2654-89a IS 199-1989 RA 2016: 2016	0 % to 50 %
131	MECHANICAL-TEXTILE MATERIALS	GeoTextile/Nonwoven material	Weight	ISO 9864 : 2005 ASTM D 5261-10 (reapproved 2003) ISO 9073-1-1989 EDANA 40.3-1990: 1990	10 g/sqm to 6000 g/sqm
132	MECHANICAL-TEXTILE MATERIALS	Geotextiles, Nonwoven material	Wide Width Tensile Properties	ISO 10319 :2015 ASTM D 4595-17: 2015	100 N to 30000 N
133	MECHANICAL-TEXTILE MATERIALS	Geotextiles/ Nonwoven materials	Index Puncture Resistance	ASTM D 4833-07 RA 2013: 2013	100 kgf to 5000 kgf
134	MECHANICAL-TEXTILE MATERIALS	Geotextiles/Nonwoven material	Tensile Strength(Strip Test)	ISO 9073-3 :1989 ASTM D 5035-11 RA: 2015	100 N to 30000 N
135	MECHANICAL-TEXTILE MATERIALS	Geotextiles/Nonwoven materials	Abrasion Resistance	STP/TT/Fa/C/107 Issue No 9: (based on BAW (Federal Waterway Engineering and Research Institute, Germany)Test method: 2018	Qualitative(1 to 500000 cycles)
136	MECHANICAL-TEXTILE MATERIALS	Geotextiles/Nonwoven materials	CBR Puncture	ISO 12236 : 2006 ASTM D 6241: 2014	100 N to 30000 N



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137	MECHANICAL-TEXTILE MATERIALS	Geotextiles/Nonwoven materials	Determination of water flow capacity in their Plane	ISO 12958-2010/ ASTM D 4716 - 2014: 2014	0.001 L/m.s to 10.0 L/m.s
138	MECHANICAL-TEXTILE MATERIALS	Geotextiles/Nonwoven materials	Dynamic Perforation Test(Cone Drop)	ISO 13433-01: 2006	2 mm to 50 mm
139	MECHANICAL-TEXTILE MATERIALS	Geotextiles/Nonwoven materials	Nominal Thickness at Secified Pressures	ASTM D 5199-12 ISO 9863-1, Method A-2005 ASTM D 1777-1996 (RA2015): 2015	0.05 KPa to 20 KPa
140	MECHANICAL-TEXTILE MATERIALS	Geotextiles/Nonwoven materials	Seam/Join Tensile/Peeling Strength	ISO 10321-2008 ISO 13426-1: 2003	100 N to 30000 N
141	MECHANICAL-TEXTILE MATERIALS	Geotextiles/Nonwoven materials	Tensile properties of Geogrids	ASTM D 6637: 2015	100 kgf to 30000 kgf
142	MECHANICAL-TEXTILE MATERIALS	Geotextiles/Nonwoven materials	Tensile Strength (GrabTest)	ASTM D 4632-2015 ISO 9073-18: 2007	100 Kgf to 30000 Kgf
143	MECHANICAL-TEXTILE MATERIALS	Geotextiles/Nonwoven materials	Trapezoidal Tear	ASTM D 4533-15 (Geo) ISO 9073-4 1997 IS 14293-1995(RA2014) EDANA 70.4-99: 1999	100 kgf to 30000 kgf
144	MECHANICAL-TEXTILE MATERIALS	Geotextiles/Nonwoven materials	UV Resistance(Measurment of Strength after 500 hrs Accelerated Exposure to Light, Moisture and Heat in a Xenon Arc Type Apparatus)	ASTM D 4355: 2014	100 kgf to 30000 kgf



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145	MECHANICAL-TEXTILE MATERIALS	Geotextiles/Nonwoven materials	Water Permeability by Permittivity	ASTM D 4491-99a(2009) ISO 11058: 2015	1 mm/s to 100 mm/s
146	MECHANICAL-TEXTILE MATERIALS	Geotextiles/Nonwoven materials	Water Permeability by Permittivity	ASTM D 4491-99a(2017) ISO 11058: 2015	0.05 s ⁻¹ to 60 s ⁻¹
147	MECHANICAL-TEXTILE MATERIALS	Geotextiles/Nonwoven materials	Water permittivity Test(Under Load)	ISO 10776: 2012	0.001 L/m.s to 10.0 L/m.s
148	MECHANICAL-TEXTILE MATERIALS	Hi-Vis Fabric /Garment (Reflective material)	Coefficient of Retro-reflection	DIN EN ISO 20471-2017 EN 471 -2008-03 EN 1150 -1999 IS 14221-1998 RA2016: 2016	10 CD.lx-1.m2 to 2000 CD.lx-1.m2
149	MECHANICAL-TEXTILE MATERIALS	Knitted Fabric, Garment	Stitch density / Knitted Fabric Construction	ASTM D 3887-96 (Reapproved 2008): 2008	20 per dm to 1000 per dm
150	MECHANICAL-TEXTILE MATERIALS	Protective Clothing (Gloves)	Blade Cut Resistance (Index)	EN 388 2003 (Sec 6.2): 2003	0.1 to 20
151	MECHANICAL-TEXTILE MATERIALS	Protective Clothing (Gloves)	Puncture Resistance	EN 388 (Sec 6.4): 2003	100 N to 5000 N
152	MECHANICAL-TEXTILE MATERIALS	Protective Clothing/Garment/Accesories	Limited Flame Spread	ISO 15025:2016 IS 15758:2007 (Part 4) RA 2013 ISO 14116-2015: 2016	0.1 Sec to 3600 Sec
153	MECHANICAL-TEXTILE MATERIALS	Protective clothing/Garments/ Accessories	Contact Heat Transmission	ISO 12127-1:2015 EN 702: 1995	0.1 Sec to 3600 Sec
154	MECHANICAL-TEXTILE MATERIALS	Protective Clothing/Garments/ Accessories	Heat Transfer	ISO 17493-2016 NFPA 1975-1975 Section 8: 2014	-50 % to 50 %



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155	MECHANICAL-TEXTILE MATERIALS	Protective Clothing/Garments/ Electrostatic Material	Electrical resistance	EN 1149-2: 1997	1000 ohm to 20000000000 ohm
156	MECHANICAL-TEXTILE MATERIALS	Protective Clothing/Garments/Acc essories	Convective Heat Resistance	ISO 9151 2016, IS 15758 pART 1 RA 2013: 2013	0.1 s to 3600 s
157	MECHANICAL-TEXTILE MATERIALS	Protective Clothing/Garments/Acc essories	Radiant Heat	ISO 6942 -2002 IS 15758 - 2007 (Part 2) RA 2013: 2007	0.1 Sec to 3600 Sec
158	MECHANICAL-TEXTILE MATERIALS	Protective Clothing/Garments/Ele ctrostatic material	Surface Resistance and Surface Resistivity	EN 1149-1: 2006	1000 ohm to 20000000000 ohm
159	MECHANICAL-TEXTILE MATERIALS	Textile material, Plastic	Accelerated exposure of textile material using a controlled irradiance Xenon Arc apparatus	ASTM G 155 Cycle 1-2013 ISO 4892-2-2016 ISO 16474-1:2016 ASTM D 7869: 2017	Qualitative(2 hours to 2000 hours)
160	MECHANICAL-TEXTILE MATERIALS	Textile material, Plastic	Standard Practice for UV exposure for Plastic	ASTM D 4329-2013 ASTM G 154-2016 ISO 4892-3-2016 ISO 16474-1:2013 IS 14887: 2014	Qualitative(2 hours to 2000 hours)
161	MECHANICAL-TEXTILE MATERIALS	Textile material/Plastic	Accelerated exposure of Automotive interior trim components using a controlled irradiance Xenon Arc apparatus	SAE J 2412-2015 SAE J 1885: 2008	Qualitative(2 hours to 2000 hours)
162	MECHANICAL-TEXTILE MATERIALS	Yarn	Yarn Unevenness(U%)	ISO 16549-2004, ASTM D 1425: 2014	1 % to 50 %
163	MECHANICAL-TEXTILE MATERIALS	Yarn	Yarn Unevenness(U%)	ISO 16549-2004, ASTM D 1425: 2014	1 % to 50 %



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164	MECHANICAL-TEXTILE MATERIALS	Yarns	Classification of long length rare occurring faults (Classimat Quantum Analysis)	ASTM D 6197-: 2017	0.1 /100km to 99999 /100km
165	MECHANICAL-TEXTILE MATERIALS	Yarns	Classification of long length rare occurring faults (Classimat Quantum Analysis) - Long thin	ASTM D 6197: 2017	0.1 /100 km to 99999 /100 km
166	MECHANICAL-TEXTILE MATERIALS	Yarns	Classification of long length rare occurring faults (Classimat Quantum Analysis) - Small thick	ASTM D 6197: 2017	0.1 /100 km to 99999 /100 km
167	MECHANICAL-TEXTILE MATERIALS	Yarns	Classification of long length rare occurring faults(Classimat Quantum Analysis) - Long thick	ASTM D 6197: 2017	0 /100km to 99999 /100km
168	MECHANICAL-TEXTILE MATERIALS	Yarns	Imperfections/Km (Thin, Thich, Neps), CVm%, Spectrogram	ISO 16549-2004; STP/TT/Y/7 Issue no.9 (Uster standard Test Method 1997): : 2016	0.1 /km to 9999 /km
169	MECHANICAL-TEXTILE MATERIALS	Yarns	Imperfections/Km (Thin, Thick & Neps), CVm%, Spectrogram	ISO 16549-2004; STP/TT/Y/7 Issue no.9 (Uster standard Test Method 1997): 2016	0.1 /km to 9999 /km
170	MECHANICAL-TEXTILE MATERIALS	Yarns	Lea Strength	ASTM D 1578-93(2016); IS 1315-1977 RA 2008 ISO 6939: 1988	10 kgf to 500 kgf



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171	MECHANICAL-TEXTILE MATERIALS	Yarns	Single Yarn Strength	STP/TT/Y/11-Issue No.00-2018(Uster Standard Test method 1999): 2018	0.1 N to 990 N
172	MECHANICAL-TEXTILE MATERIALS	Yarns	Single Yarn Strength - Elongation	STP/TT/Y/11-Issue No.00(Uster Standard Test method 1999): 2018	1 % to 70 %
173	MECHANICAL-TEXTILE MATERIALS	Yarns	Single Yarn Strength and Elongation%	ASTM D 2256/ D 2256M 10 E1 RA 2015; IS 1670-1991 RA 2007 ISO 2062: 2009	1 N to 100 N
174	MECHANICAL-TEXTILE MATERIALS	Yarns	Single Yarn Strength and Elongation%	ASTM D 2256/ D 2256M 10 e1 RA 2015; IS 1670-1991 RA 2007 ISO 2062 : 2009: 2009	0.01 N to 99 N
175	MECHANICAL-TEXTILE MATERIALS	Yarns	Single Yarn Twist	ASTN D 1422-13; IS 832-1985 RA 1999; ISO 17202: 2002	40 TPM to 2400 TPM
176	MECHANICAL-TEXTILE MATERIALS	Yarns	Yarn Linear Density	ASTM D 1907/D 1907 M-12; IS 1315-1977 RA 2014 ; ISO 2060: 1994	0.05 Ne to 130 Ne
177	MECHANICAL-TEXTILE MATERIALS	Yarns	Yarn Twist	ASTM D 1423-02 RA 2008; IS 832-1985: Edition 2.2.(2000-03); ISO 2061: 2010	40 TPM to 2400 TPM